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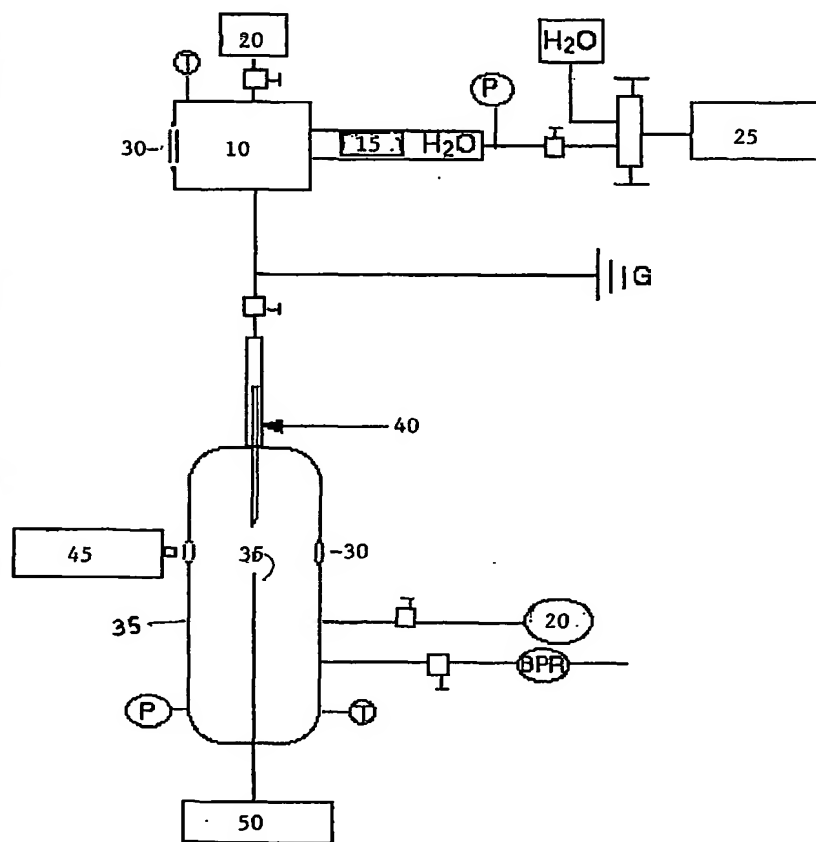
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| <p>(51) <b>International Patent Classification<sup>7</sup>:</b><br/>D02G 3/22, D06M 11/00</p> <p>(21) <b>International Application Number:</b><br/>PCT/US2004/043096</p> <p>(22) <b>International Filing Date:</b><br/>23 December 2004 (23.12.2004)</p> <p>(25) <b>Filing Language:</b><br/>English</p> <p>(26) <b>Publication Language:</b><br/>English</p> <p>(30) <b>Priority Data:</b><br/>60/531,675      23 December 2003 (23.12.2003)      US</p> <p>(71) <b>Applicant (for all designated States except US): VIRGINIA COMMONWEALTH UNIVERSITY [US/US];</b><br/>800 East Leigh Street, Suite 113, Richmond, VA 23219 (US).</p> | <p>(72) <b>Inventors; and</b></p> <p>(75) <b>Inventors/Applicants (for US only): MCHUGH, Mark [US/US];</b> 1122 West Avenue, Richmond, Virginia 23220 (US). <b>SHEN, Zhihao [US/US];</b> 9010 Patterson Avenue, Apt 9, Richmond, Virginia 23229 (US). <b>GEE, Diane [US/US];</b> 2907 St. Regis Drive, Richmond, Virginia 23236 (US). <b>KARLES, Georgios [US/US];</b> 11829 Summer Stream Drive, Richmond, Virginia 23233 (US). <b>NEPOMUCENO, Jose [US/US];</b> 16052 Daybreak Lane, Beaverdam, Virginia 23105 (US). <b>HUWARD, Gary [US/US];</b> 12218 Prince Philip Lane, Chesterfield, Virginia 23838 (US).</p> <p>(74) <b>Agents: WHITHAM, Michael, E. et al.;</b> Whitham, Curtis &amp; Christofferson P.C., 11491 Sunset Hills Road, Suite 340, Reston, VA 20190 (US).</p> <p>(81) <b>Designated States (unless otherwise indicated, for every kind of national protection available):</b> AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,</p> |
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- (54) Title:** METHOD OF PRODUCING FIBERS BY ELECTROSPINNING AT HIGH PRESSURES



**(57) Abstract:** A process of making fibers by electrostatic spinning includes the use of a mixing vessel (10), a piston (15) for pressurizing the polymer, carbon dioxide sources (20) for lowering the viscosity of the polymer or pressurizing the collection vessel (35), a pressure generator (25), view ports (30), a target (36), a spinning needle (40), a camera/TV recorder (45) and a voltage source (50).



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